

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-028797**Date Inspected:** 30-Nov-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1530**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site

CWI Name:	Fred Michels and Jesse Cayabyab			CWI Present:	Yes	No
Inspected CWI report:	Yes	No	N/A	Rod Oven in Use:	Yes	No N/A
Electrode to specification:	Yes	No	N/A	Weld Procedures Followed:	Yes	No N/A
Qualified Welders:	Yes	No	N/A	Verified Joint Fit-up:	Yes	No N/A
Approved Drawings:	Yes	No	N/A	Approved WPS:	Yes	No N/A
				Delayed / Cancelled:	Yes	No N/A
Bridge No:	34-0006			Component:	SAS OBG	

Summary of Items Observed:

Caltrans Office of Structural Material (OSM) Quality Assurance Inspector (QAI) Joselito Lizardo was present at the Self Anchored Suspension (SAS) job site as requested to perform observations on the welding of components for the San Francisco Oakland Bay Bridge (SFOBB) Project.

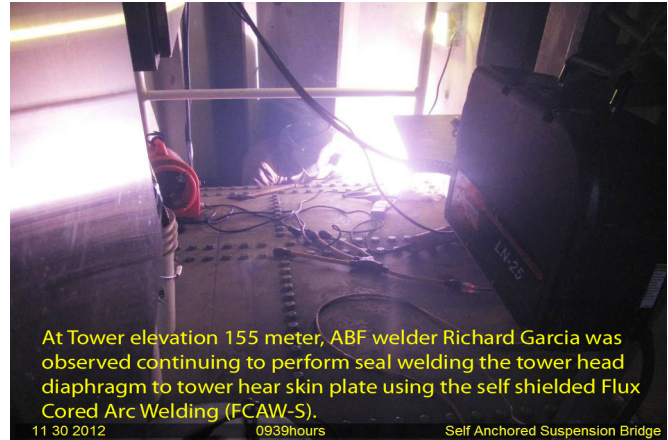
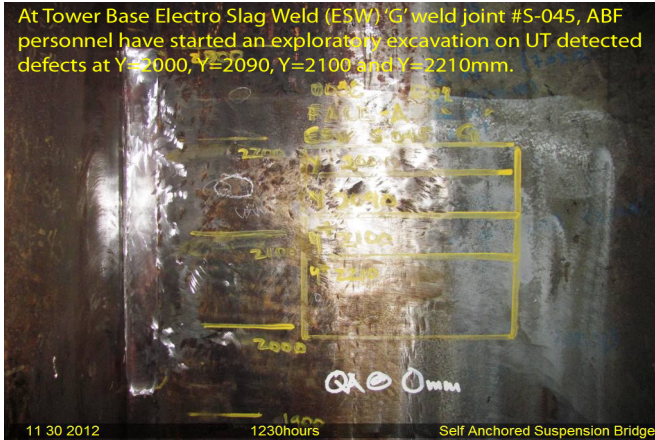
At Tower elevation 155 meters, QA randomly observed ABF welder Richard Garcia continuing to perform seal welding between the Tower head diaphragm and tower head skin plate 'G'. The welder was observed seal welding inside West shaft and South shaft chimneys with weld designation 8TSA6-1 and 8TSA6-4. The welder was noted seal welding in utilizing self-shielded Flux Cored Arc Welding (FCAW-S) with 0.072" diameter E71T-8 wire electrode. Prior seal welding, the paint coating on both sides of the joint was ground off and the plates were preheated to more than 150 degrees Fahrenheit. During the shift, QA noted ABF QC Fred Michels was on site monitoring the in process preheats and welding parameters with measured working current of 345 amperes and voltage of 23.4 volts. During the shift, seal welding of the Tower head diaphragm to Tower head skin plate 'G' with weld designations mentioned were still continuing when this QA was told to go to the tower base and observed the exploratory excavation on the UT detected defects.

At Tower Base Electro Slag Weld (ESW) 'G' weld joint #S-045, ABF personnel was first noted flush grinding the weld cover of the welded ESW at locations Y=2000, Y=2090, Y=2100 and Y=2210mm for the start of exploratory excavation on the UT detected defects. After the completion of the flush grinding on mentioned Y locations, ABF QC Jesse Cayabyab was observed performing Magnetic Particle Testing (MT) on the flush ground surface with no significant indication noted. This QA also performed the same test and noted same result. Per given instruction to the ABF personnel, the exploratory excavation will be done in every 1 mm increment that should be MT tested

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and recorded. The ABF personnel continued the excavation at 1mm deep and then MT tested by ABF QC Jesse Cayabyab with no significant indication noted. This QA also performed the same test and noted same result. During the shift, the ABF personnel continued the excavation in 1mm increments using the same method of test and verification up to 4mm with same result. The shift was completed up to this depth of excavation.



Summary of Conversations:

No significant conversation today.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact SMR Gary Thomas (916) 764-6027, who represents the Office of Structural Materials for your project.

Inspected By: Lizardo, Joselito

Quality Assurance Inspector

Reviewed By: Reyes, Danny

QA Reviewer